

NTTF Recommendation 2.1 Flooding

May 21, 2015



Japan Lessons Learned

Office of Nuclear Reactor Regulation
Office of New Reactors



Agenda

NRC

- Status of FHRR reviews
- Staff response to SRM for COMSECY 14-037
- Development of guidance for proposed rulemaking related to mitigation strategies
- Public questions and comments

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- Development of NEI 12-06 Appendix G Mitigating Strategies Flood Hazard Assessment
- Public questions and comments



FHRR – Flood Hazard Reevaluation Report



Status

- NRC received 19 FHRRs for Category 3 plants March 2015
- USACE sites: 8 sites granted extensions, 2 completed
- NRC issued 11 staff assessments
- Interim actions inspections completed for Categories 1 and 2. Underway for Category 3.
- Integrated assessments schedule will be revised



Japan Lessons Learned



SRM-COMSECY 14-0037

- Staff requested guidance on three items
- Should mitigation strategies (MS) be capable of addressing reevaluated hazard?
- Is it acceptable for licensees to use targeted or scenariospecific MS to address specific flooding scenarios?
- Should Recommendation 2.1 Phase 2 decision-making be integrated into development and implementation of MS?
- The Commission affirmed items 1 and 2 and disapproved item 3
- Commission is due June 30 Action plan containing the response to the



Information Needed for MS Expedited Review of

- Intermediate deliverable: Issue letters assessment confirming acceptability of hazard for MS
- Proposed schedule for issuance of letters:
- 22 sites by August 2015
- 22 sites by December 2015
- 6 sites in 2016 (extensions and USACE information)





Enhance Review Efficiency

- shorten review and response timelines Direct interface to resolve technical questions to
- Combine site audits, webinars, and phone calls to licensees leverage similarities between reviews and/or
- Apply lessons learned from completed reviews.
- for site-specific PMP studies Leverage aspects of other Federal agencies' reviews



Industry's Timely Support Is Key

- Timely audits to support the schedule
- Timely availability of supporting material (e.g: input/output files; population of ERRs)
- Feedback on ability to support the schedule
- Expedited alignment on use of flood parameters and need for reinforcement/modification
- Consider limiting FHRR revisions to support the schedule





Developing Guidance to Assess MS

- rulemaking (i.e. proposed 10 CFR 50.155) Agency priority to support MBDBE proposed
- to meet the reevaluated hazard level Proposed rulemaking extends Mitigation Strategies
- to support issuance for public comment by early Draft Regulatory Guide DG-1301 under development August
- Staff is reviewing NEI 12-06 App. G for endorsement



MBDBE — Mitigation of Beyond Design Basis Events



Reassess Integrated Assessment Guidance

- greatest opportunity for safety enhancements Develop a graded approach to focus on plants with
- Focused-Scope Assessment
- Full-Scope Assessment
- Consider warning time to address local intense precipitation
- Consider available physical margin and protection modifications
- is early-2016 Target schedule for guidance incorporating the above



Japan Lessons Learned



Phase 2

- Will use the current regulatory processes.
- Allow flexibility in the way licensees address vulnerabilities identified through the Integrated Assessment process.
- Take into account the fact that licensees are protecting mitigating strategies equipment from the reevaluated flood.
- defense-in-depth. Consider the appropriate balance between protection and mitigation based on the principle of





Key Messages

- **Expediting Mitigating Strategies Flood Hazard** support MS assessments Information (MSFHI) letters by end of 2015 to
- early 2016 to include a graded approach Revised integrated assessment guidance by
- Next steps
- Complete NEI 12-06 App. G review (July)
- Issue MSFHI letters (2 groups: August and December)
- Issue integrated assessment deferral letter (imminent)





Opportunity for Public Questions or Comments

Additional Questions? Please ask us at:

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